



41st Annual Targets, UAVs & Range Operations Symposium & Exhibition

U. S. Army Target Program in Support of Transformation

LTC Al Brown
Deputy Director TMO
(256) 842-6421 (DSN: 788)
alvin.brown@peostri.army.mil



November 17-19, 2003

Event #4410

Palm Springs Convention Center
"Contributions to Transformation"



WHY CHANGE?

**Only One Reason →
National**

***To Meet Needs of the
Security***

through Military Strategy

**How Do
We
Transform?**

- **Become More expeditionary** (including lighter, more lethal)
- **Become More networked**
- **Leverage the exterior positions** (precision from distance as sensors move in)
- **Leverage increasingly persistent ISR**
- **Tighten sensor-shooter timelines**
- **Obtain Information Superiority** (information operations)
- **Expand unmanned capabilities** (UAV, robotics, etc.)





From the Top.....

"It will not work anymore for us to t
of charging off in a service-centric v
Tomorrow our heavy forces will be l
our light forces must be more lethal
all must be easier to deploy. It will be a force
that will not only be interoperable, but
responsive, agile and capable of capitalizing
on the revolution in information and the
advances in technology which are taking
place every year."



Sir, with all due respect- could we have less Network Centric - and more rounds on target?





ARMY TRANSFORMATION

Current Force



*Focus is on our
Current as Well as
Our Future Force*

Future Force



- **Our Recent Combat Operations Reinforce**
 - Units and Echelons Must be Flexible and Tailorable
 - A Balanced Force Structure
 - Army has a Critical Role in Effective Joint Contingency Operations

Our azimuth to the future is good. The Army must remain relevant and ready.

General Peter J. Schoomaker, CSA



Acquisition Excellence



ORGANIZATION

Program Executive Office
Simulation, Training, and Instrumentation

**Program Executive Office
Simulation, Training, and
Instrumentation
(PEO-STRI)**

**Project Manager
For Instrumentation,
Targets and Threat
Simulators (PM ITTS)**

**Instrumentation
Management Office
(IMO)**

Targets Management Office (TMO)
Steve Milburn, Director
LTC Alvin Brown, Deputy Director
Glenda Jenss, Secretary
Vacant, Administration

3/1-0/0

**Threat Systems
Management Office
(TSMO)**

Business Office
Chief
Charles Farrior

1/0-10/0

**Technical
Management
Division**
Chief

Beau Beaufait

0/0-13/0

**Operations
Division**
Chief

Bob Jeffreys

1/0-13/1

**Evaluation & Requirements
Branch**
Chief
Glenn Schaffer

0/0-7/0

PEO STRI CIVILIAN-5 / MILITARY-1
AMCOM CIVILIAN-43 / MILITARY-0

Acquisition Excellence





TMO MISSION

The mission of Targets Management Office is to manage the life cycle acquisition of technically optimized, interoperable and adaptable Targets, Target Control Systems and Ground Range Systems used in the Live and Virtual Testing, Training and Mission Rehearsal Environments, providing best value procurement and superior life cycle sustainment and operation when required, for the U.S. Army Transformation, Future Forces, Other Joint Services, Allied Clients and Governmental Agencies.

*Program Executive Office
Simulation, Training, and Instrumentation*



Acquisition Excellence



VISION

**TO BE
THE ARMED FORCES
CENTER OF EXCELLENCE
FOR TARGETS DEVELOPMENT,
ACQUISITION, FIELDING,
MAINTENANCE AND
OPERATIONS**



TMO in Support of Transformation





PRIMARY ACTIVITIES

Based on customer target requirements

- Aerial - Fixed and Rotary Wing
- Short Range Theater Ballistic Missile
- Mobile Ground / Foreign Materiel
- Virtual - Models and Simulations
- Range Targetry Systems
- Auxiliary / Ancillary Equipment

DoD Reliance
Lead for

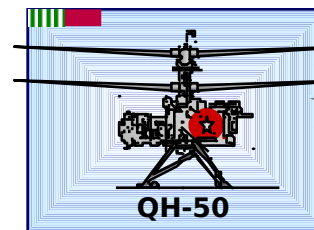
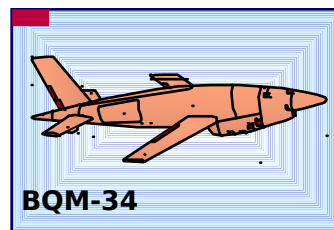
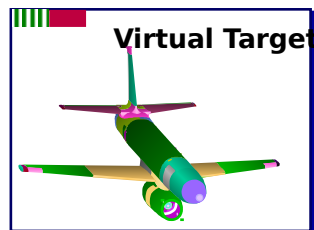
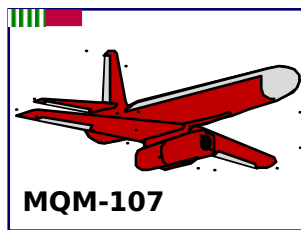
- Rotary Wing
- Aerial
- Mobile Ground



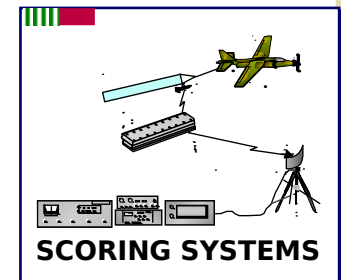
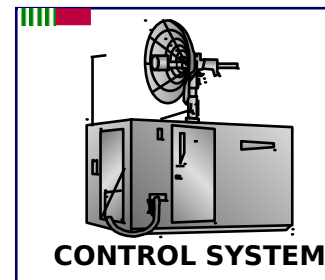
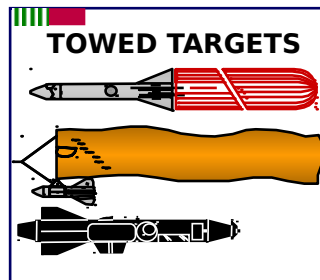
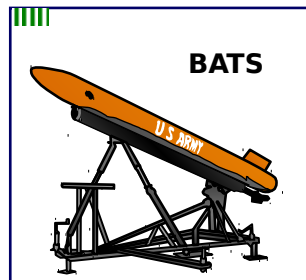
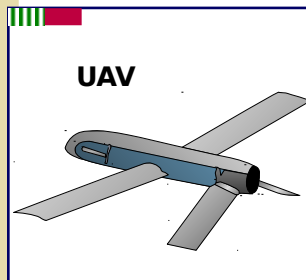
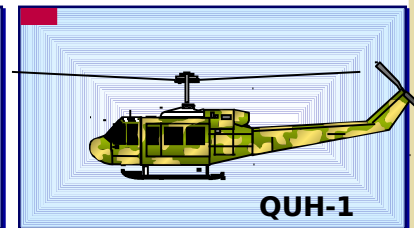
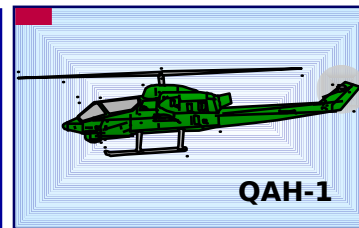
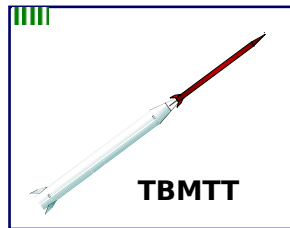
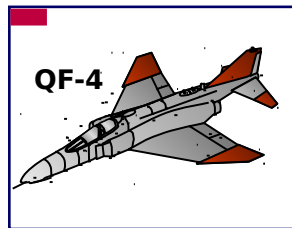
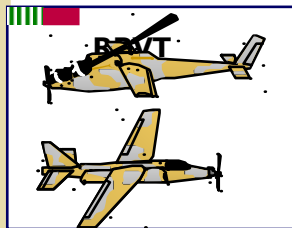


AERIAL TARGETS

Program Executive Office
Simulation, Training, and Instrumentation



**ROTARY
WING
RELIANCE
LEAD**



Use: ■■■■ Training ■ T&E



Acquisition Excellence



MOBILE GROUND TARGETS

Program Executive Office
Simulation, Training, and Instrumentation



Surrogate Targets



REMET



Foreign



Fleet

**RELIANCE
LEAD**

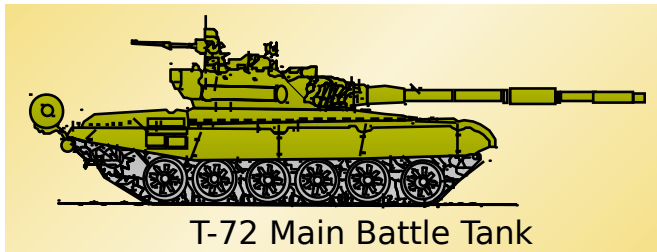


Acquisition Excellence

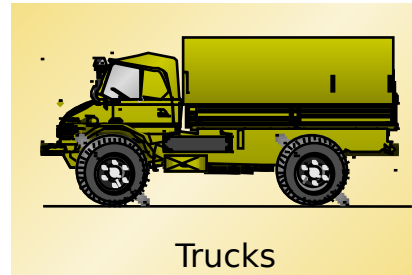


MOBILE GROUND TARGETS

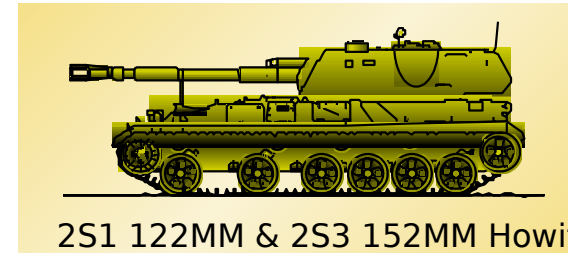
Program Executive Office
Simulation, Training, and Instrumentation



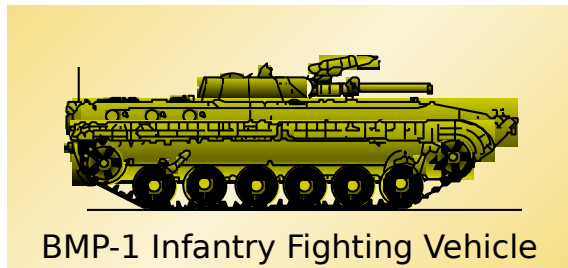
T-72 Main Battle Tank



Trucks



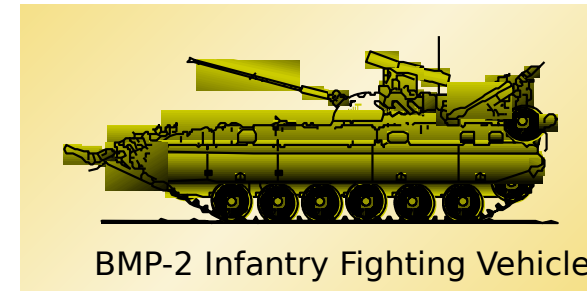
2S1 122MM & 2S3 152MM Howitzers



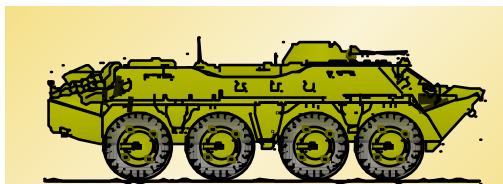
BMP-1 Infantry Fighting Vehicle



ZSU-23-4 Air Defense Tank

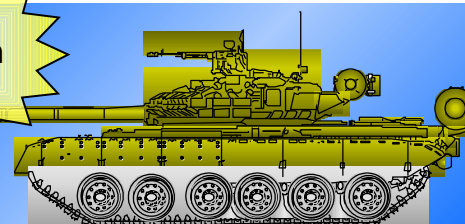


BMP-2 Infantry Fighting Vehicle

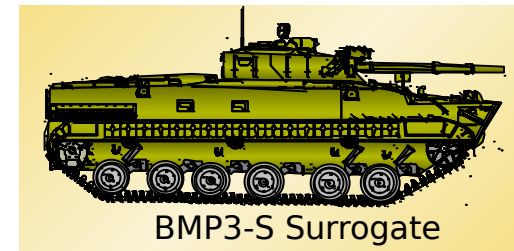


BTR-70 Armored Personnel Carrier

New
addition
in FY04



T-80 Main Battle Tank



BMP3-S Surrogate

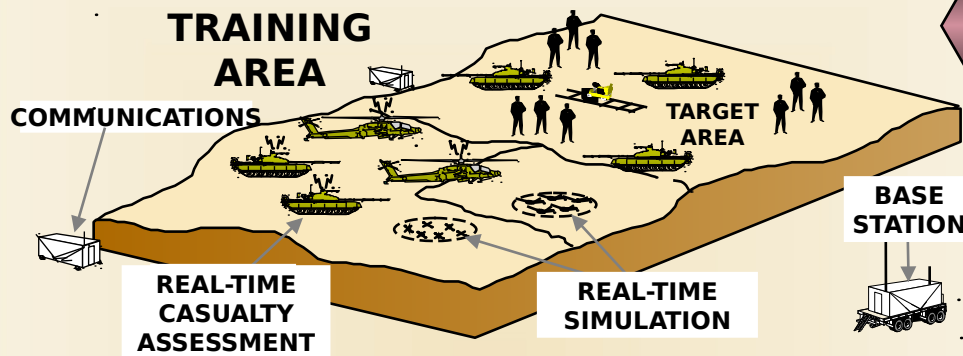


Acquisition Excellence



RANGE TARGET SYSTEMS

New Generation Army Target System (NGATS)



- Focuses on eliminating current targetry deficiencies
- Provides an improved, standardized targetry capability to support:
 - current training
 - respond to future enhanced weapon systems.



Key advantages and features include

- Common Controls and Components
- Designed for deployability
- Standardized Commercial Spares and Repair Parts
- Requirements coordinated with user
- Systems Engineering Approach

Urban Operations -Interactive Target System

- Provides Human Targets capable of:



- mortal and non-mortal wound hit sensing
 - emulating thermal signature
 - two-way communication
 - animation
 - swing in/out; pop-up/fall down
 - MILES Coded Laser shoot-back
- Provides self-propelled vehicle target capable of both manned and remote operation

Precision Scoring



LOMAH technology that provides efficient marksmanship training time.

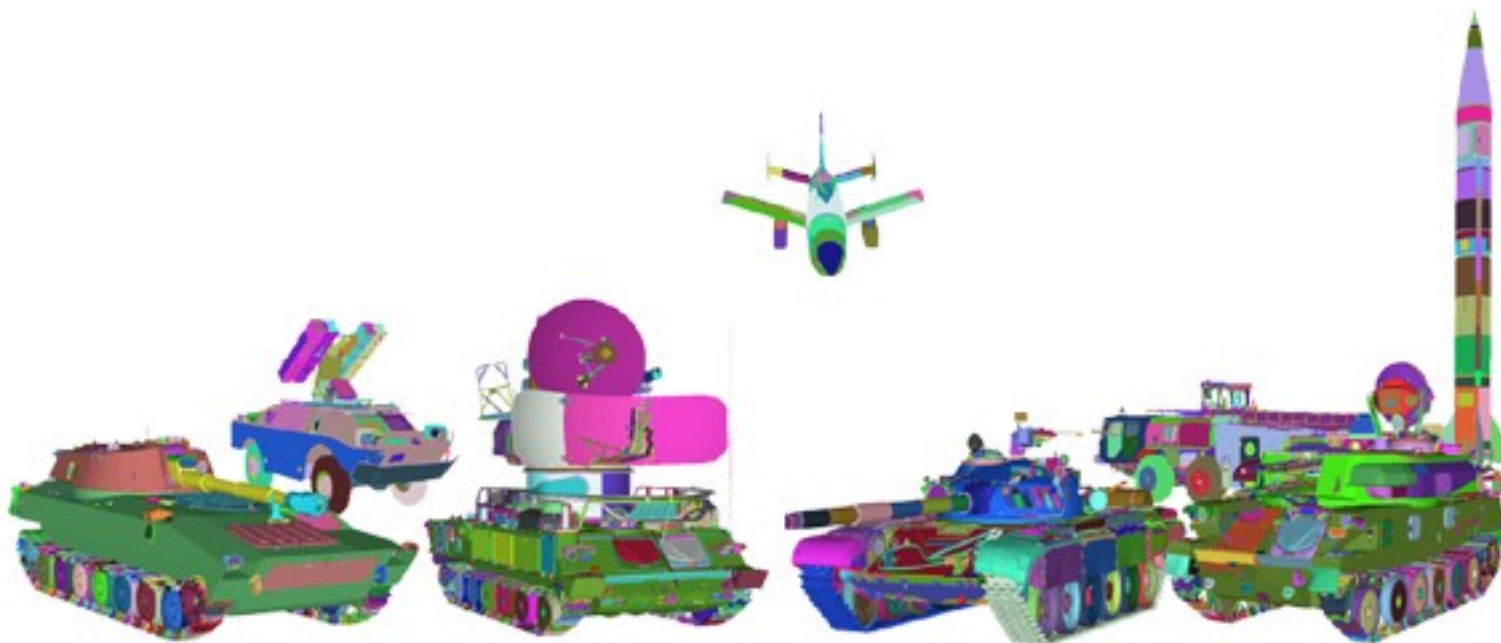
Key advantages and features include:

- Immediate feedback to trainee on firing point display.
- Immediate identification and correction of trainee problems.
- Printer score cards provide shot-by-shot performance record.
- Lanes can be operated by a central control computer or individually at the firing point.



VIRTUAL TARGETS PROGRAM

Creation of CAD geometry for target



*Program Executive Office
Simulation, Training, and Instrumentation*



Acquisition Excellence



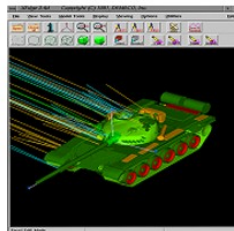
TARGET GENERATION LABORATORY

**Transformation of CAD models or models
from other sources or field- data into inputs
for simulation**

Measured Data



Subscale Data

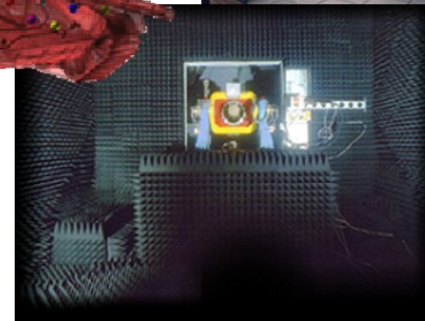
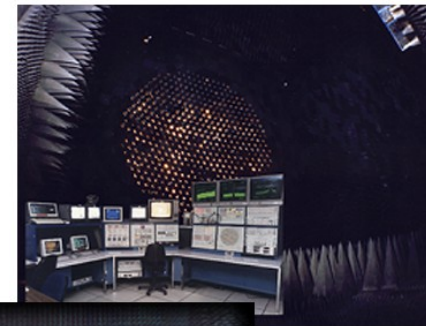


Synthetic Data

Extract the
Scattering
Centers



Modeling and Simulation
Applications



HWIL Facility
Pre and Post Flight Analysis



ARMY MODEL EXCHANGE

**Account
Management
Model Archiving
On-line
Distribution**

- Over 1,200 models on-line
- Over 375 active users
- Over 3,900 models distributed during 2003



**Inherently improves
M&S**

**Quality and
Standardization**

*Program Executive Office
Simulation, Training, and Instrumentation*



Acquisition Excellence



SUMMARY

TMO:

- **ENABLING DoD TRANSFORMATION**
- **IS THE ESTABLISHED CENTER OF EXCELLENCE FOR “CRADLE TO GRAVE” TARGETS SUPPORT.**
- **SERVES AS WORLDWIDE “BEACON/ADVOCATE” FOR ALL TARGETS PROJECTS AND PROGRAMS.**
- **STANDS READY TO RESPONSIVELY AND SUCCESSFULLY SUPPORT ALL T&E AND TRAINING REQUIREMENTS — “HELP YOU MAKE YOUR BEST SHOT!”**